NC/PMC/W-04/2019-20/YN-C1 Date: 10-04-2019

1. TEST REPORT ON CEMENT:

Sub: Testing of 53 Grade Cement Sample (IS 12269-1987).
{Project*: Development of parks in ward no.4 Yelahanka New town.}
Ref.: Material testing/W-04/PMC/18-19,
Report Required for: Assistant Executive Engineer,
Project Division, Yelahanka Zone,
BBMP, Bangalore.
Name of the Agency/Contractor*: Sri. Chowda Reddy. K.S, Bangalore.

PHYSICAL TESTS ON CEMENT

Grade * : 53,
Type * : O.P.C

TABLE 1.1:

SL No	Name of Test	Test Results	Requirements as per IS 8112-1989
1	Initial setting time	**165 min**	Shall not be less than 30 min
2	Final setting time	**282min**	Shall not be more than 600 min
3	Fineness (by dry sieving on IS 90 micron sieve)	**1.86 %**	Not to exceed 10.0%
4	Soundness test(by Le-Chatelier's method)	**2.02 mm**	Shall not be more than 10 mm
5	Compressive strength a) 3 days (average of three results	**28.96 N/Sq mm**	Shall not be less than 27 N/Sqmm

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NC/PMC/W-04/2019-20/YN-FA1 **Date: 10-04-2019**

1. TESTING OF FINE AGGREGATES :

Sub: Testing of Fine Aggregates.
{Project*: Development of parks in ward no.4 Yelahanka New town.}
Ref.: Material testing/W-04/PMC/18-19,
Report Required for: Assistant Executive Engineer,
Project Division, Yelahanka Zone,
BBMP, Bangalore.
Name of the Agency/Contractor*: Sri. Chowda Reddy. K.S, Bangalore.

TABLE - 1.1 : SIEVE ANALYSIS :

IS Sieve Size,mm	Percentage Passing	Specification as Per IS: 383-1970(Reaffirmed 2002) Percentage Passing			Remarks
		Zone-I	Zone-II	Zone -II	
04.75	**97.55**	90-100	90-100	90-100	The Sample Conforms to Grading **Zone-II**
02.36	**84.05**	60-95	75-100	85-100	
01.18	**61.70**	30-70	55-90	75-100	
600. mic	**46.40**	15.34	35-59	60-79	
300.mic	**19.20**	5-20	8-30	12-40	
150.mic	**7.85**	0-10	0-10	0-10	

TABLE 1.2 ;

Sl No	Test Conducted	Sample	Results	**Requirements** as Per IS. Specification IS :383-1970 (Reaffirmed 2002)
1	Bulking of Sand	001	**17.90 %**	-----
2	Silt Content	----	**0.60 %**	Not more than 8%
3	Specific Gravity	----	**2.61**	-------

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NC/PMC/W-04/2019-20/YN-CA1 **Date: 10-04-2019**

1. TESTING OF COARSE AGGREGATES (20 mm):

Sub: Testing of Construction Materials.
{Project*: Development of parks in ward no.4 Yelahanka New town.}
Ref.: Material testing/W-04/PMC/18-19,
Report Required for: Assistant Executive Engineer,
Project Division, Yelahanka Zone,
BBMP, Bangalore.
Name of the Agency/Contractor*: Sri. Chowda Reddy. K.S, Bangalore.

Table - 1.1 : SIEVE ANALYSIS :

IS Sieve Size, mm	Percentage passing	Requirements as per IS 383-1970 (Reaffirmed on 2002) % Passing	
	20 mm Sample	Single size	Graded
40 mm	100.00	100.00	100.00
20 mm	96.70	85-100	90 - 100
10 mm	44.25	0 - 20	25 - 55
4.75 mm	8.40	0 - 5	0 - 10

TABLE 1.2 :

SL No	Test conducted	Results	Requirements as per IS:383-1970 & Tests Conforms to IS 2386(Part I to IV) – 1963 (Reaffirmed on 2002)
1.	Flakiness Index	22.60 %	Not to exceed 25 %
2.	Crushing value	27.20 %	Not to exceed 45 % for concrete other than for wearing surfaces and 30% for concrete for wearing surfaces

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NC/PMC/W-04/2019-20/YN-CB1

Date: 22-04-2019

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 07days Compressive Strength).
{Project*: Development of parks in ward no.4 Yelahanka New town.}
Ref.: Material testing/W-04/PMC/18-19,
Report Required for: Assistant Executive Engineer,
Project Division, Yelahanka Zone,
BBMP, Bangalore.
Name of the Agency/Contractor*: Sri. Chowda Reddy. K.S, Bangalore.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{15}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	15-04-19	22-04-19	07	22500	300	13.33	**12.96**
	002	"	"	"	"	290	12.89	
	003	"	"	"	"	285	12.67	

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NC/PMC/W-04/2019-20/YN-CB2 **Date: 23-04-2019**

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 07days Compressive Strength).
{Project*: Development of parks in ward no.4 Yelahanka New town.}
Ref.: Material testing/W-04/PMC/18-19,
Report Required for: Assistant Executive Engineer,
Project Division, Yelahanka Zone,
BBMP, Bangalore.
Name of the Agency/Contractor*: Sri. Chowda Reddy. K.S, Bangalore.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{15}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	18-04-19	23-04-19	07	22500	295	13.11	**13.48**
	002	"	"	"	"	310	13.78	
	003	"	"	"	"	305	13.56	

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NC/PMC/W-04/2019-20/YN-CB3 **Date: 27-04-2019**

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 07days Compressive Strength).
{Project*: Development of parks in ward no.4 Yelahanka New town.}
Ref.: Material testing/W-04/PMC/18-19,
Report Required for: Assistant Executive Engineer,
Project Division, Yelahanka Zone,
BBMP, Bangalore.
Name of the Agency/Contractor*: Sri. Chowda Reddy. K.S, Bangalore.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{15}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	20-04-19	27-04-19	07	22500	300	13.33	**13.19**
	002	"	"	"	"	280	12.44	
	003	"	"	"	"	310	13.78	

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NC/PMC/W-04/2019-20/YN-CB1a

Date: 13-05-2019

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 28days Compressive Strength).
{Project*: Development of parks in ward no.4 Yelahanka New town.}
Ref.: Material testing/W-04/PMC/18-19,
Report Required for: Assistant Executive Engineer,
Project Division, Yelahanka Zone,
BBMP, Bangalore.
Name of the Agency/Contractor*: Sri. Chowda Reddy. K.S, Bangalore.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{15}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	15-04-19	13-05-19	28	22500	390	17.33	**17.70**
	002	"	"	"	"	405	18.00	
	003	"	"	"	"	400	17.78	

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NC/PMC/W-04/2019-20/YN-CB2a **Date: 16-05-2019**

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 28days Compressive Strength).
{Project*: Development of parks in ward no.4 Yelahanka New town.}
Ref.: Material testing/W-04/PMC/18-19,
Report Required for: Assistant Executive Engineer,
Project Division, Yelahanka Zone,
BBMP, Bangalore.
Name of the Agency/Contractor*: Sri. Chowda Reddy. K.S, Bangalore.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{15}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/ mm^2)	Avg. Value
1	001	18-04-19	16-05-19	28	22500	405	18.00	**17.93**
	002	"	"	"	"	395	17.56	
	003	"	"	"	"	410	18.22	

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NC/PMC/W-04/2019-20/YN-CB3a **Date: 18-05-2019**

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 28days Compressive Strength).
{Project*: Development of parks in ward no.4 Yelahanka New town.}
Ref.: Material testing/W-04/PMC/18-19,
Report Required for: Assistant Executive Engineer,
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Name of the Agency/Contractor*: Sri. Chowda Reddy. K.S, Bangalore.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{15}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	20-04-19	18-05-19	28	22500	385	17.11	**17.41**
	002	"	"	"	"	400	17.78	
	003	"	"	"	"	390	17.33	

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NC/PMC/W-04/2019-20/YN-K1 Date: 18-04-2019

TEST REPORT

Sub: Testing of Pre-cast Material-Kerb Stones.
{Project*: Development of parks in ward no.4 Yelahanka New town.}
Ref.: Material testing/W-04/PMC/18-19,
Report Required for: Assistant Executive Engineer,
Project Division, Yelahanka Zone,
BBMP, Bangalore.
Name of the Agency/Contractor*: Sri. Chowda Reddy. K.S, Bangalore.

1. PHYSICAL TESTS ON KERB STONES :

Sl No.	Identification	Flexural strength, fcr in N/sqmm	Characteristic Compressive Strength, fck in N/sqmm	Avg. Characteristic. Compressive Strength fck in N/sqmm	Remarks
1	001	3.36	23.10	**23.08**	As per Cl. 6.2.2 of IS 456- 2000, fcr=0.7√ fck
2	002	3.31	22.40		
3	003	3.41	23.75		

2. WATER ABSORPTION TEST

Sl No	Identification	Water absorption %	Average value %
1	001	4.92	**4.76**
2	002	4.76	
3	003	4.61	

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